

Title (en)
CONTROLLING OXYGEN CONCENTRATOR TIMING CYCLE BASED ON FLOW RATE OF OXYGEN OUTPUT

Title (de)
STEUERUNG DES ZEITAKTES EINES SAUERSTOFFKONZENTRATORS AUF DER BASIS DURCHFLUSSRATE DER SAUERSTOFFAUSGABE

Title (fr)
COMMANDE DE CYCLE DE TEMPORISATION DE CONCENTRATEUR D'OXYGÈNE SUR BASE DU DÉBIT DE LA SORTIE D'OXYGÈNE

Publication
EP 3122411 A4 20171227 (EN)

Application
EP 15770044 A 20150327

Priority
• US 201461971632 P 20140328
• US 2015022970 W 20150327

Abstract (en)
[origin: US2015273174A1] A control circuit of an oxygen concentrator maintains pressure within a compressor of the oxygen concentrator. The control circuit includes a microprocessor that controls functioning of a controller based on two or more of: a user-adjustable flow rate of oxygen delivered by the oxygen concentrator to a user, an ambient temperature, and an ambient pressure. The functioning of the controller further controls the adsorption of various gases by sieve beds of the oxygen concentrator to produce oxygen enriched gas.

IPC 8 full level
A61M 16/10 (2006.01); **B01D 53/047** (2006.01); **B01D 53/14** (2006.01)

CPC (source: EP US)
A61M 16/101 (2014.02 - EP US); **B01D 53/0476** (2013.01 - EP US); **A61M 16/0063** (2014.02 - EP US); **A61M 16/201** (2014.02 - EP US); **A61M 16/202** (2014.02 - EP US); **A61M 2202/0208** (2013.01 - EP US); **A61M 2205/3334** (2013.01 - EP US); **A61M 2205/3358** (2013.01 - EP US); **A61M 2205/3368** (2013.01 - EP US); **A61M 2205/50** (2013.01 - EP US); **B01D 2255/50** (2013.01 - EP US); **B01D 2256/12** (2013.01 - EP US); **B01D 2257/102** (2013.01 - EP US); **B01D 2259/40009** (2013.01 - EP US); **B01D 2259/40081** (2013.01 - EP US); **B01D 2259/402** (2013.01 - EP US); **B01D 2259/4533** (2013.01 - EP US)

Citation (search report)
• [X1] WO 2013038299 A1 20130321 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
• [X1] WO 2013038315 A1 20130321 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
• See references of WO 2015148911A1

Cited by
US11116930B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 11116930 B2 20210914; US 2015273174 A1 20151001; CA 2944040 A1 20151001; CA 2944040 C 20220621; CN 106456927 A 20170222; CN 106456927 B 20200505; EP 3122411 A1 20170201; EP 3122411 A4 20171227; EP 3122411 B1 20190710; ES 2744932 T3 20200226; JP 2017510408 A 20170413; JP 6931606 B2 20210908; WO 2015148911 A1 20151001

DOCDB simple family (application)
US 201514670979 A 20150327; CA 2944040 A 20150327; CN 201580023551 A 20150327; EP 15770044 A 20150327; ES 15770044 T 20150327; JP 2017502939 A 20150327; US 2015022970 W 20150327